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FIG. 1A-1

1 ATGGAGTCGGGGCTGCTGCGGGCCGGCGCGGTGAGCGAGGTCATCGTCCTGCATTACAAC
M E S G L L R P A P V S E V I V L H Y N

61 TACACCGGCAAGCTCCGCGGTGCGCGCTACCAGCCGGGTGCCGGCCTGCGCGCCGACGCC
Y T G K L R G A R Y Q P G A G L R A D A

121 GTGGTGTGCTGGCGGTGTGCGCCTTCATCGTGCTAGAGAATCTAGCCGTGTTGTTGGTG
V V C L A V C A F I V L E N L A V L L V

181 CTCGGACGCCACCCGCGCTCCACGCTCCCATGTTCTGCTCCTGGGCAGCCTCACGTTG
L G R H P R F H A P M F L L L G S L T L

241 TCGGATCTGCTGGCAGGCGCCGCTACGCCGCCAACATCCTACTGTGCGGGCCGCTCAGC
S D L L A G A A Y A A N I L L S G P L T

301 CTGAAACTGTCCCCCGCGCTCTGGTTCGCACGGGAGGGAGGCGTCTTCGTGGCACTCACT
L K L S P A L W F A R E G G V F V A L T

361 GCGTCCGTGCTGAGCCTCCTGGCCATCGCGCTGGAGCGCAGCCTCACCATGGCGCGCAGG
A S V L S L L A I A L E R S L T M A R R

421 GGGCCCCGCGCCCGTCTCCAGTCGGGGGCGCACGCTGGCGATGGCAGCCGCGGCCTGGGGC
G P A P V S S R G R T L A M A A A A W G

481 GTGTCGCTGCTCCTCGGGCTCCTGCCAGCGCTGGGCTGGAATTGCCTGGGTGCGCTGGAC
V S L L L G L L P A L G W N C L G R L D

541 GCTTGCTCCACTGTCTTGCCGCTCTACGCCAAGGCCTACGTGCTCTTCTGCGTGCTCGCC
A C S T V L P L Y A K A Y V L F C V L A



FIG. 1A-2

601 TTCGTGGGCATCCTGGCCGCTATCTGTGCACTCTACGCGCGCATCTACTGCCAGGTACGC
F V G I L A A I C A L Y A R I Y C Q V R

661 GCCAACGCGCGGCGCCTGCCGGCACGGCCCGGGACTGCGGGGACCACCTCGACCCGGGCG
A N A R R L P A R P G T A G T T S T R A

721 CGTCGCAAGCCGCGCTCGCTGGCCTTGCTGCGCACGCTCAGCGTGGTGCTCCTGGCCTTT
R R K P R S L A L L R T L S V V L L A F

781 GTGGCATGTTGGGGCCCCCTCTTCCTGCTGCTGTTGCTCGACGTGGCGTGCCCGGCGCGC
V A C W G P L F L L L L L D V A C P A R

841 ACCTGTCCTGTACTCCTGCAGGCCGATCCCTTCCTGGGACTGGCCATGGCCAACTCACTT
T C P V L L Q A D P F L G L A M A N S L

901 CTGAACCCCATCATCTACACGCTCACCAACCGCGACCTGCGCCACGCGCTCCTGCGCCTG
L N P I I Y T L T N R D L R H A L L R L

961 GTCTGCTGCGGACGCCACTCCTGCGGCAGAGACCCGAGTGGCTCCCAGCAGTCGGCGAGC
V C C G R H S C G R D P S G S Q Q S A S

1021 GCGGCTGAGGCTTCCGGGGGCCTGCGCCGCTGCCTGCCCCCGGGCCTTGATGGGAGCTTC
A A E A S G G L R R C L P P G L D G S F

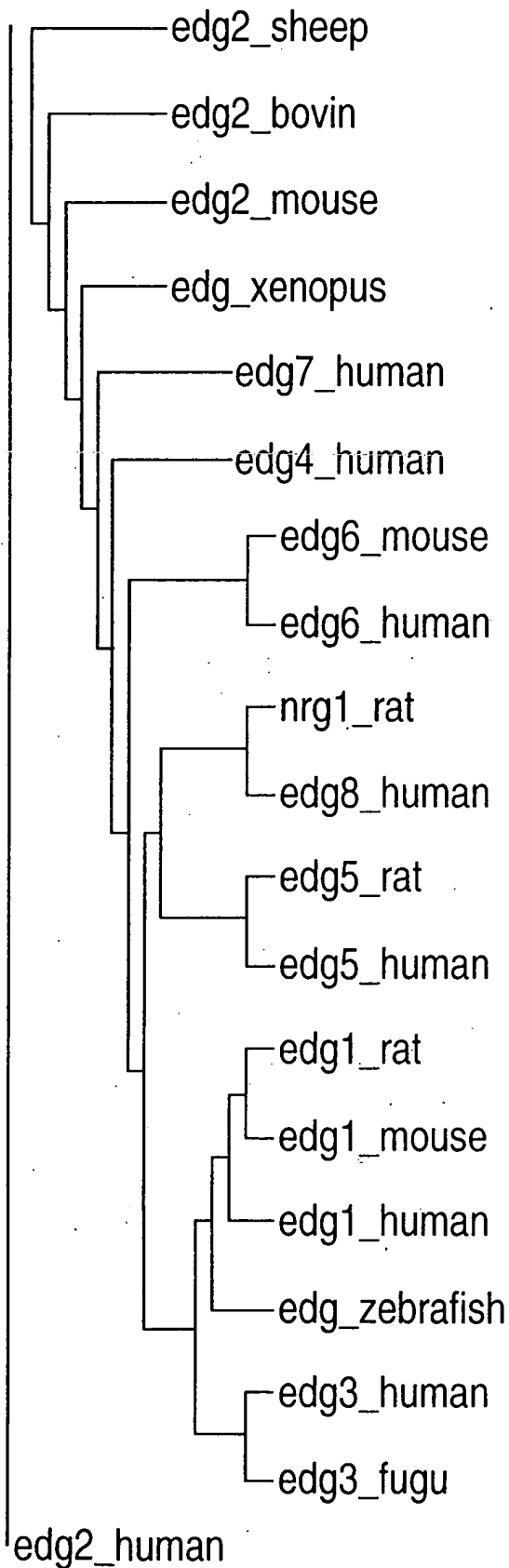
1081 AGCGGCTCGGAGCGCTCATCGCCCCAGCGCGACGGGCTGGACACCAGCGGCTCCACAGGC
S G S E R S S P Q R D G L D T S G S T G

1141 AGCCCCGGTGACCCACAGCCCGCGGACTCTGGTATCAGAACCGGCTGCAGACTGA
S P G A P T A A R T L V S E P A A D *



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FIG. 1B



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FIG. 1C-2

	241		300
edg2_human	MRMSRHSSGP R.....RNR DTMSLLKTV	VIVLGAFIIC WTPGLVLLLL	D.VCCP..QC
edg7_human	NVLSPHTSGS I.....SRR RTPMKLMKTV	MTVLGAFVVC WTPGLVVLLL	DGLNCR..QC
edg4_human	QRMAEHVSCH P.....RYR ETTLSLVKTV	VIILGAFVVC WTPGOVVLLL	DGLGCE..SC
edg1_human	RRLTFR.... .KNISKASRS SENVALLKTV	IIVLSVFIAC WAPLFILLLL	DV.GCKVKTC
edg3_human	RKVANH.... .NN.....S ERSMLLRTV	VIVVSVFIAC WSPLFILFLI	DV.ACRVQAC
edg5_human	ADMA..... .A.....A POTLALLKTV	TIVLGVFIVC WLPAFSILL	DY.ACPVHSC
edg8_human	RRLPARPGTA GTTSTRARRK PRSLALLRTL	SVVLLAFVAC WGPLFLLLLL	DV.ACPARTC
edg6_human	QKAP..... ...RPAARRK ARR..LLKTV	LMILLAFLVC WGPLFGLLLA	DVFGSNLWAO

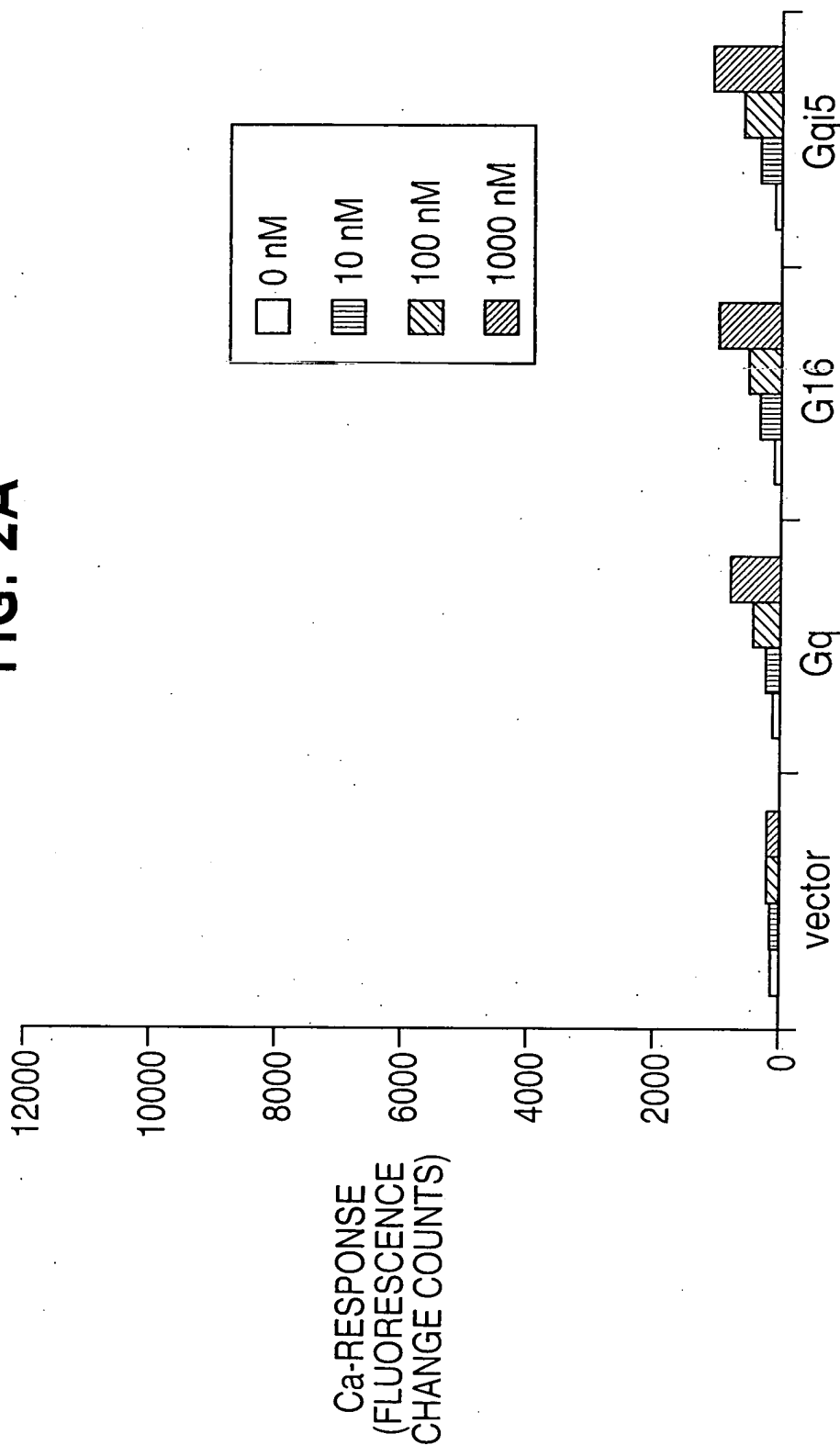
	301		360
edg2_human	DVLAYEKFFL LLAEFNSAMN PIIYSYRDK	MSATFRQILC CQRSENPTGP	TESSDRSASS
edg7_human	GVQHVKRWFL LLALLNSVFN PIIYSYKDED	MYGTMKKMIC CFSQENP...ERRPSR
edg4_human	NVLAVEKYFL LLAEANSLVN AAVYSCRDAE	MRRTFRRLLC CACLRQSTRE	SVHYTSSAQG
edg1_human	DILFRAEYFL VLAVLNSGTN PIIYTLTNKE	MRRAFIRIMS CCKCPSGD..S
edg3_human	PILFKAQWFI VLAVLNSAMN PVIYTLASKE	MRAFFRLV. .CNC.LVR..G
edg5_human	PILYKAHYFF AVSTLNSLLN PVIYTWRSRD	LRREVLRLPLQ CWRPGVGV..Q
edg8_human	PVLLQADPFL GLAMANSLLN PIIYTLTNRD	LRHALLRLVC CGRHSCGRDP	SGS..QQSAS
edg6_human	EYLRGMDWIL ALAVLNSAVN PIIYSFRSRE	VCRAVLSFLC CGCLRLGMRG	PGDCLARAVE

	361		418
edg2_human	LNHTILAGVH SNDHSVV---	-----	-----
edg7_human	IPSTVLSRSD TGSQYIEDSI SQGAVCNKST	S-----	-----
edg4_human	GASTRIMLPE NGHPLMTPPF SYLELQRYAA	SNKSTAPDDL WVLLAQPNQQ	D-----
edg1_human	AGKFKRPIIA GMEFSRSK.. .SDNSSHPQK	DEGDNPETIM SSGNVNSSS-	-----
edg3_human	RGARASPIQP ALDPSRSKSS SSNNSSHSPK	VKEDLPHTDP SSCIMDKNAA	LQNGIFCN
edg5_human	GRRRVGTPGH HLLPLRSSSS LERGMMPTS	PTFLEGNTVV	-----
edg8_human	AAEASGGLRR CLPPGLDGSF SGSERSSPQR	DGLDTSGSTG SPGAPTAART	LVSEPAAD
edg6_human	AHSGASTTDS SLRP.RDSFR GSRSLSFMR	EPLSSISSVR SI-----	-----



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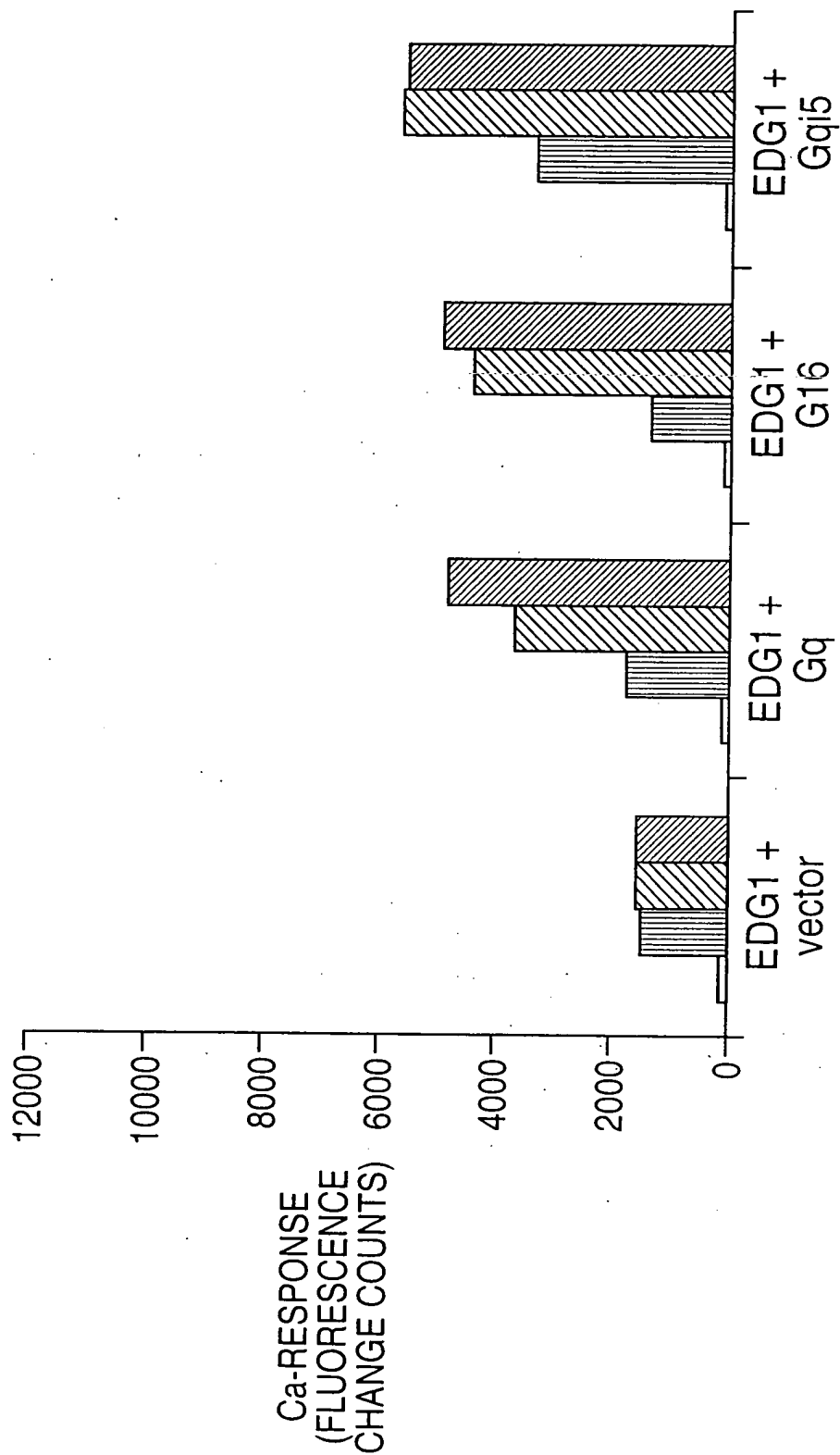
FIG. 2A





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FIG. 2B





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FIG. 2C

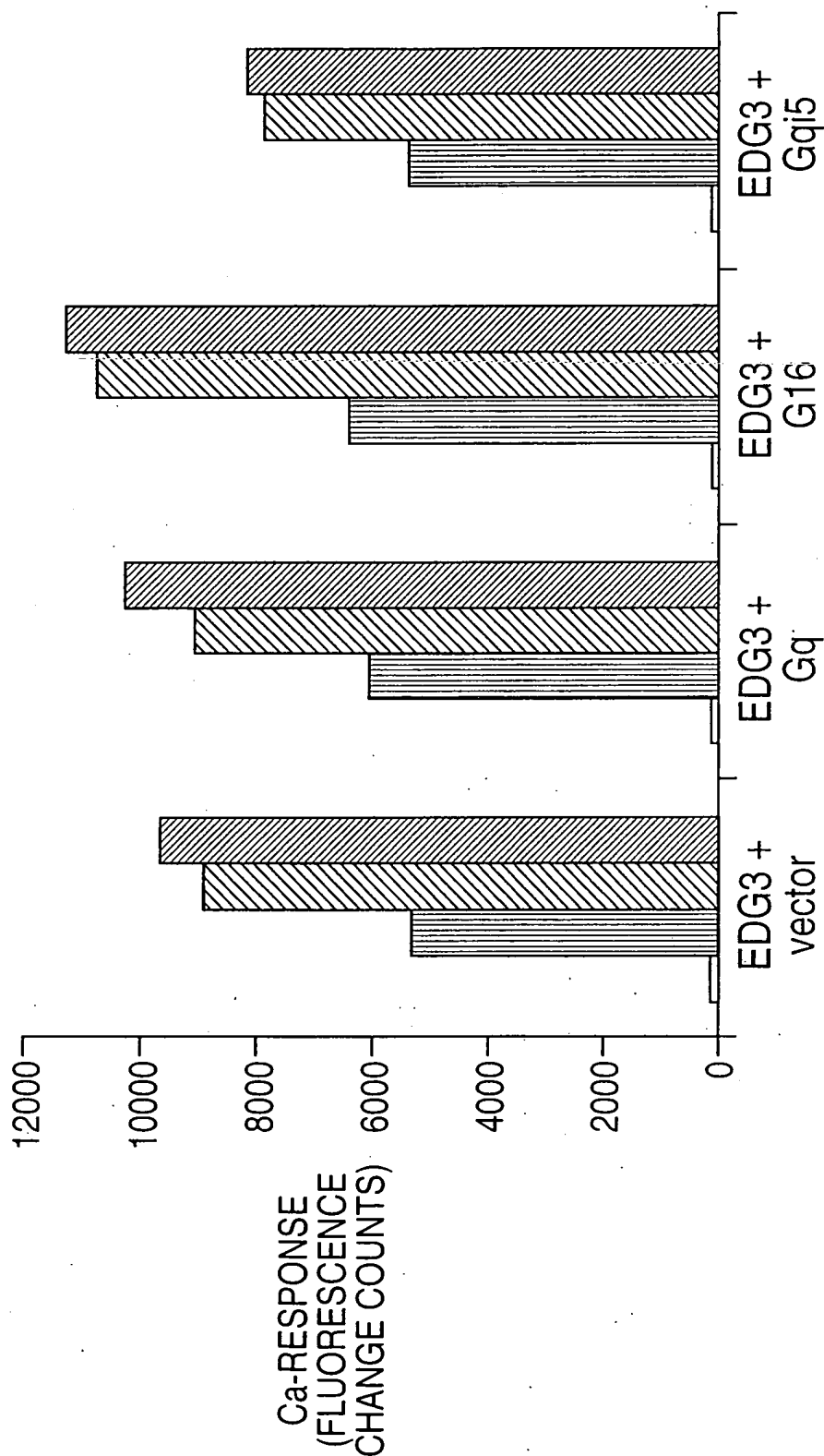




FIG. 2D

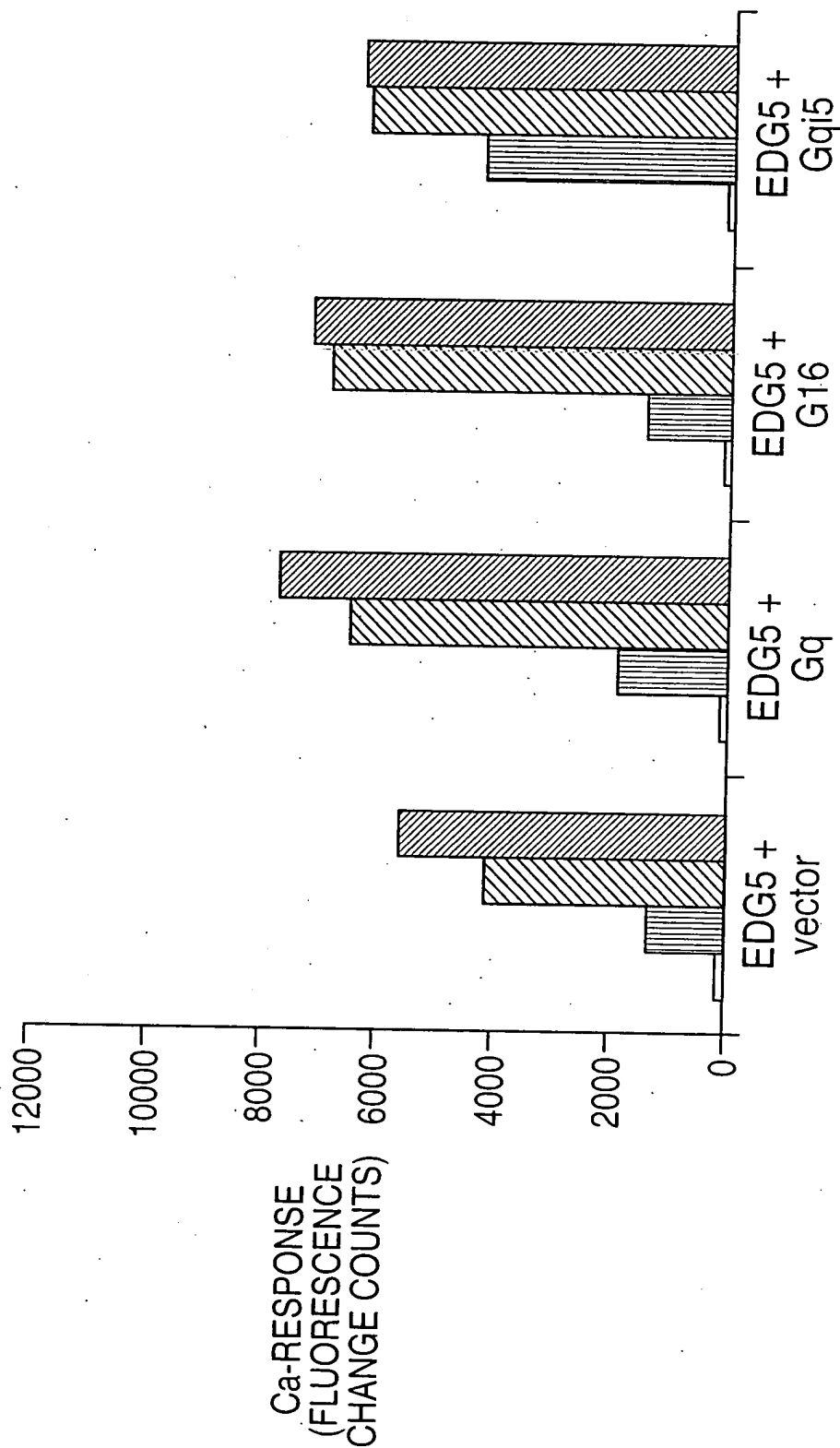




FIG. 2E

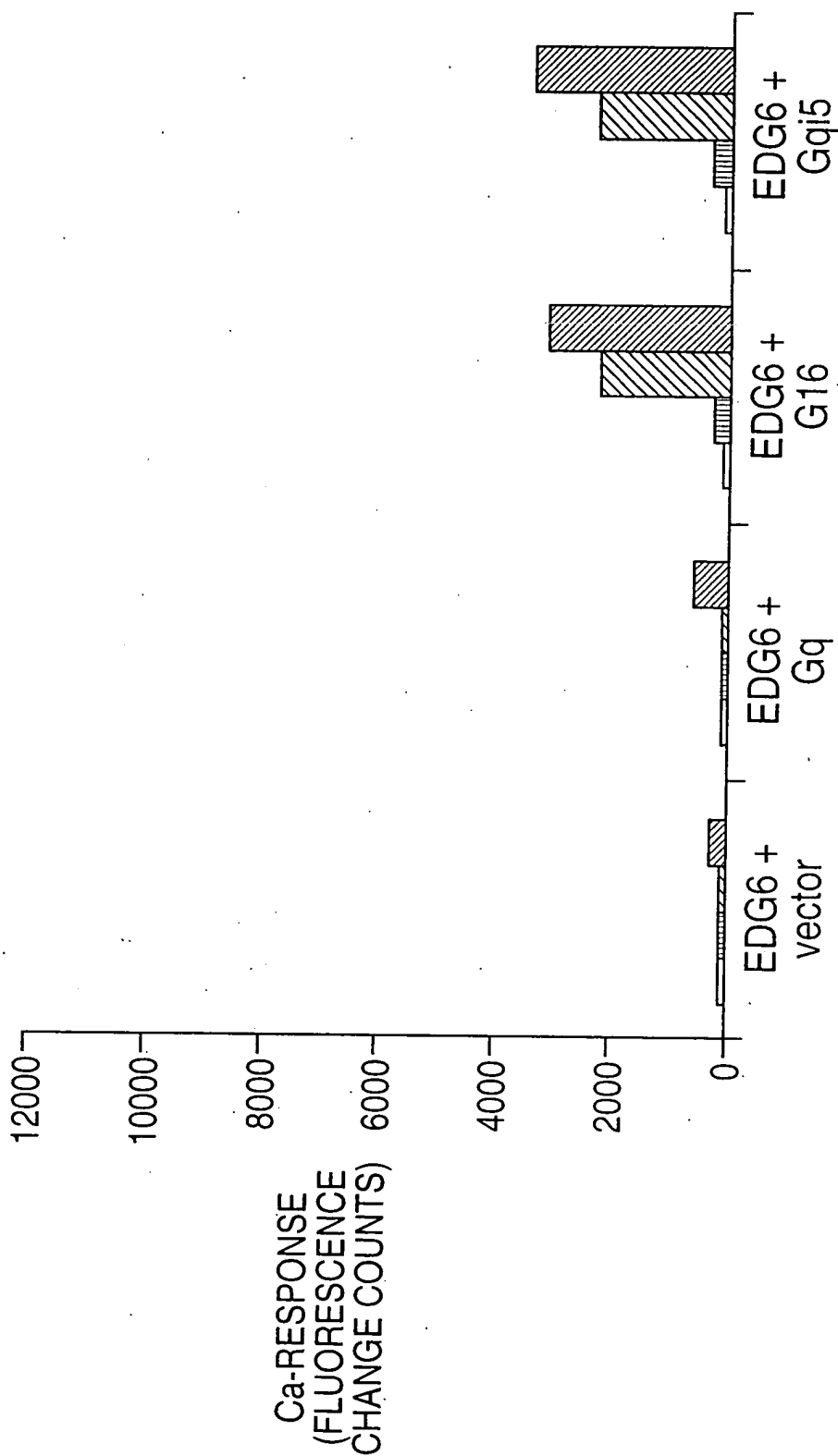




FIG. 2F

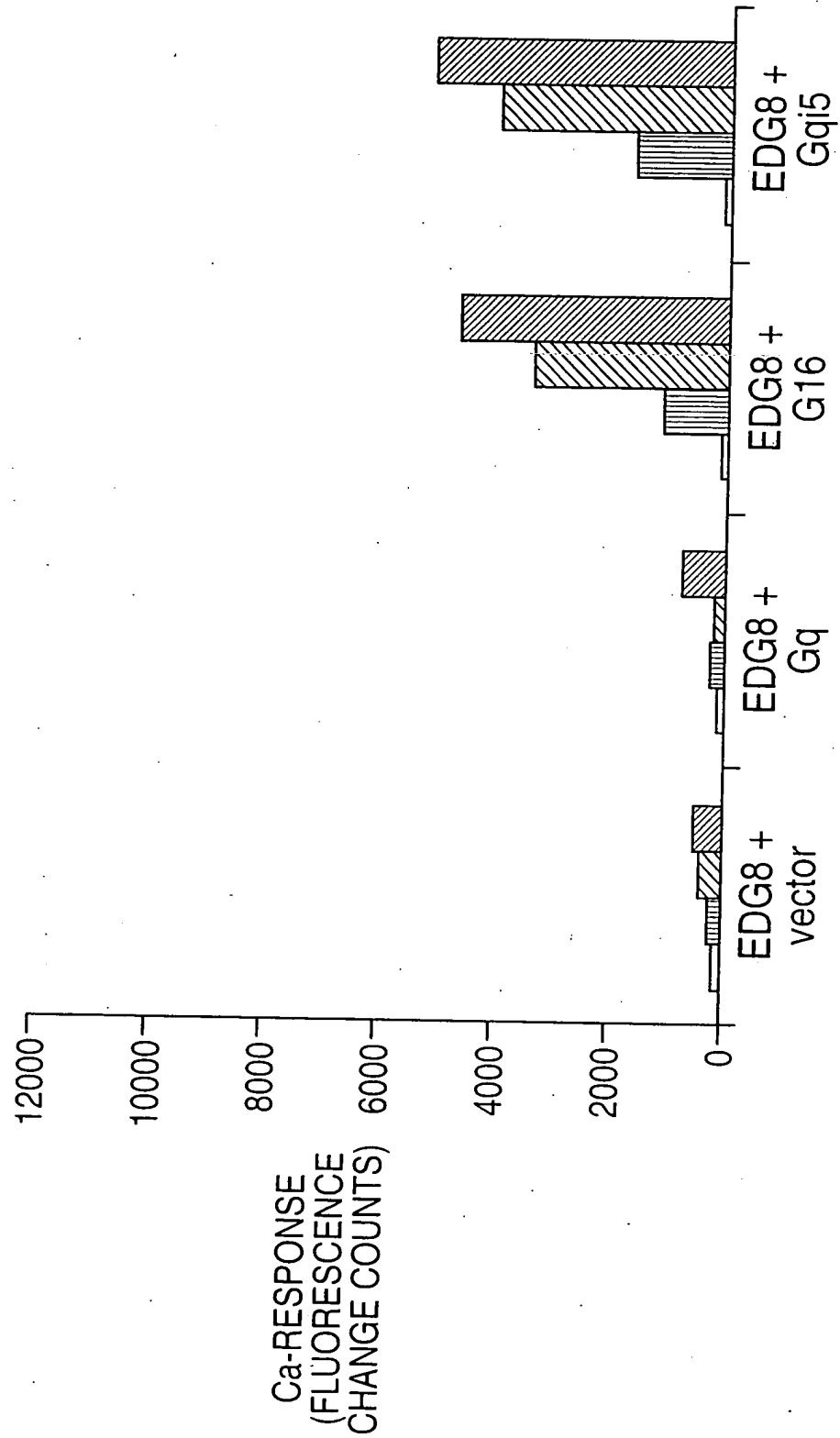




FIG. 3A

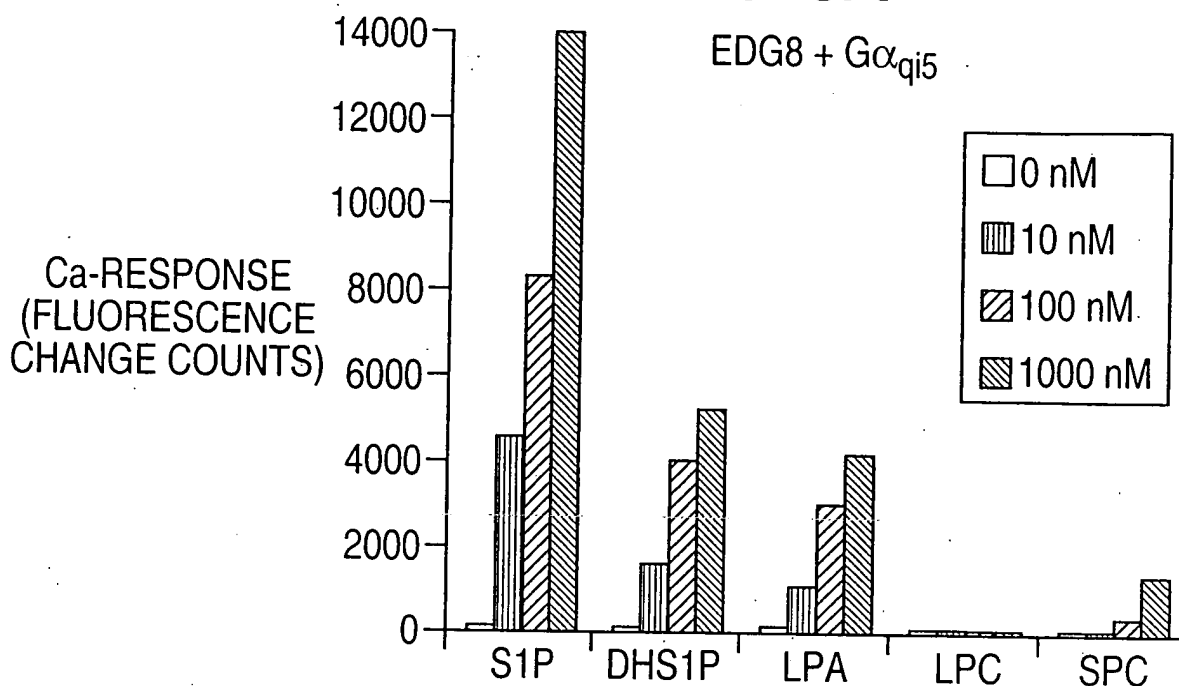


FIG. 3B

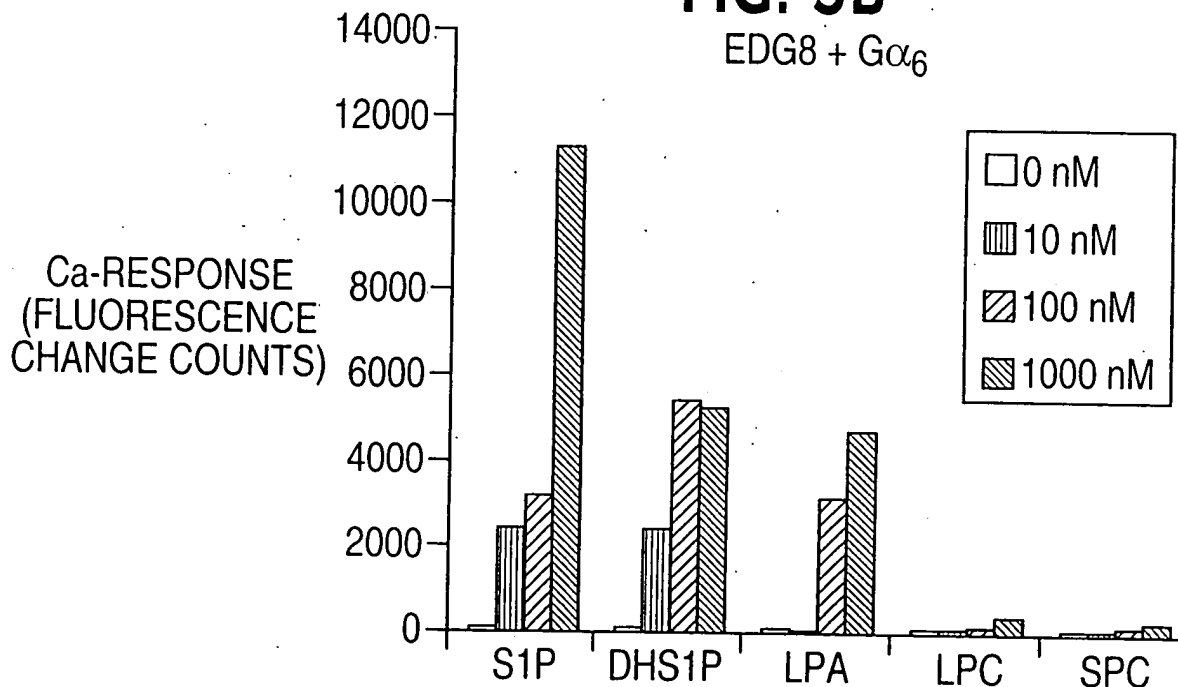


FIG. 4

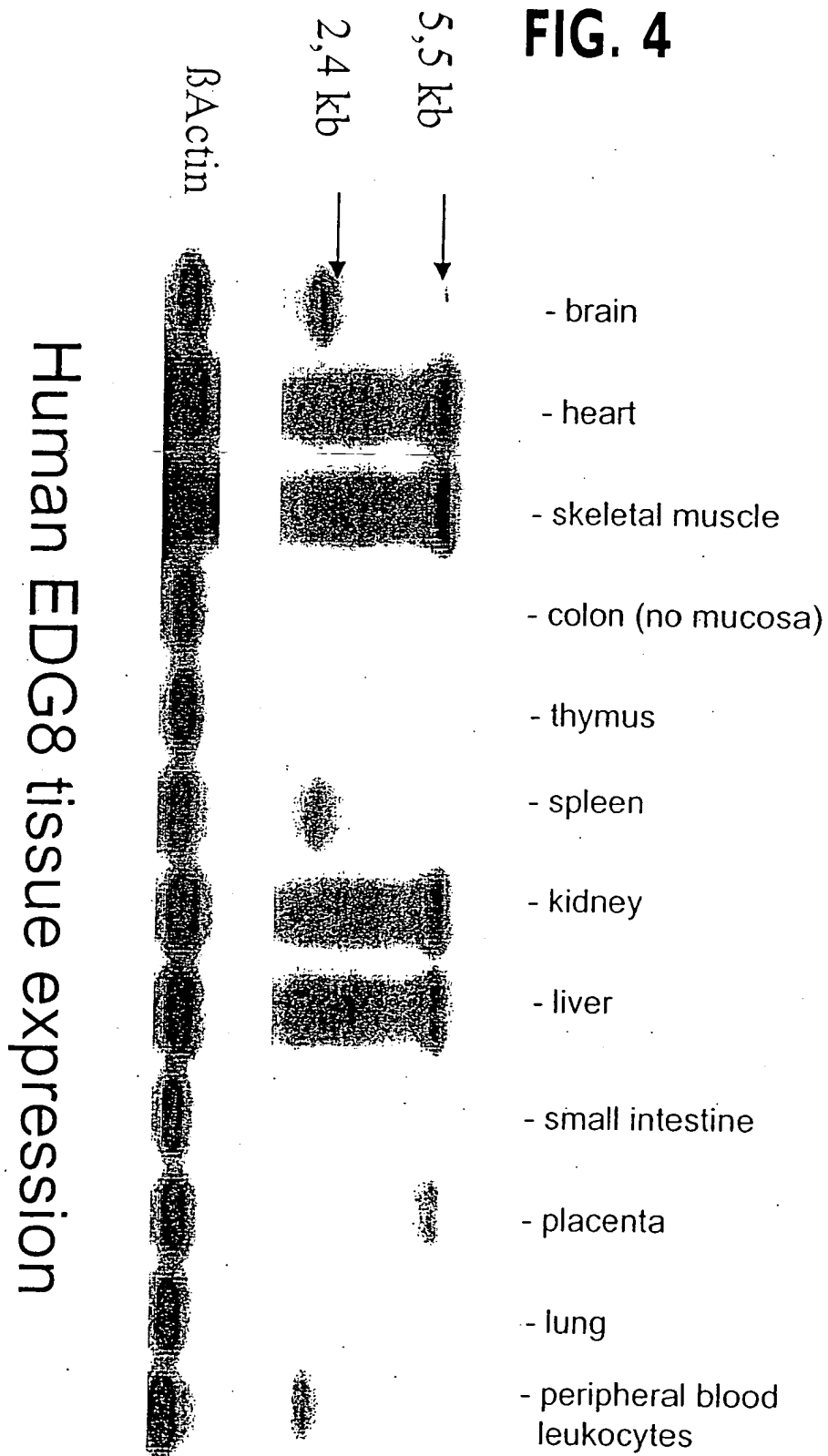
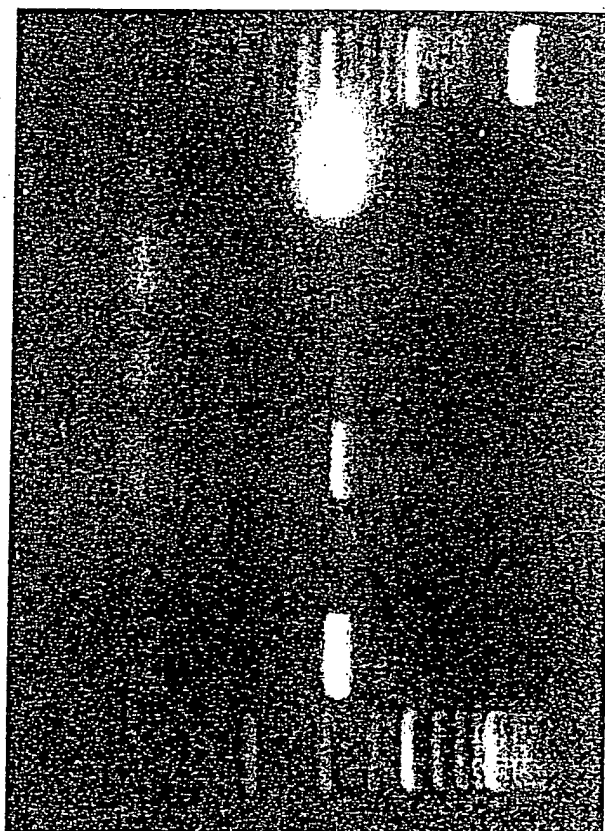


FIG. 5A

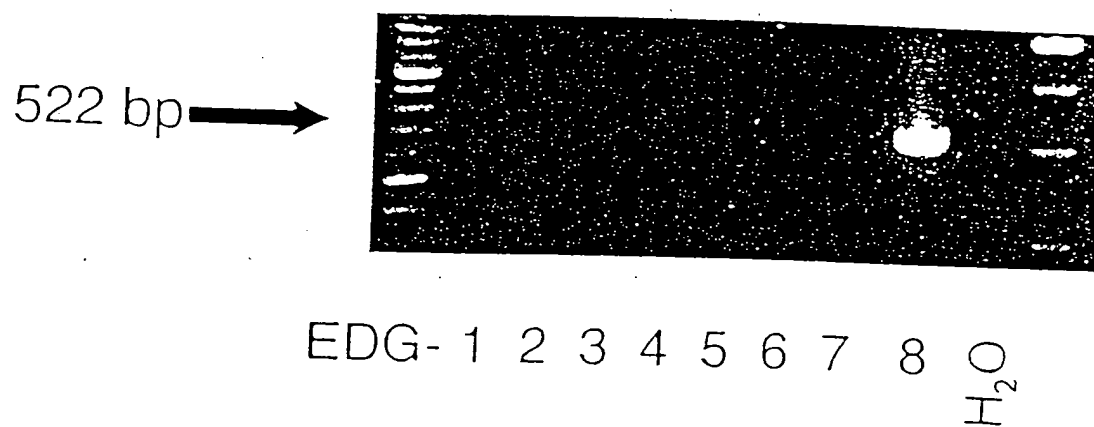
522 bp
↓



Pos. control
neg. control
HUVECS
HCAEC
HMVEC-L
HPAEC

01/22/03
jc806 U.S. PTO

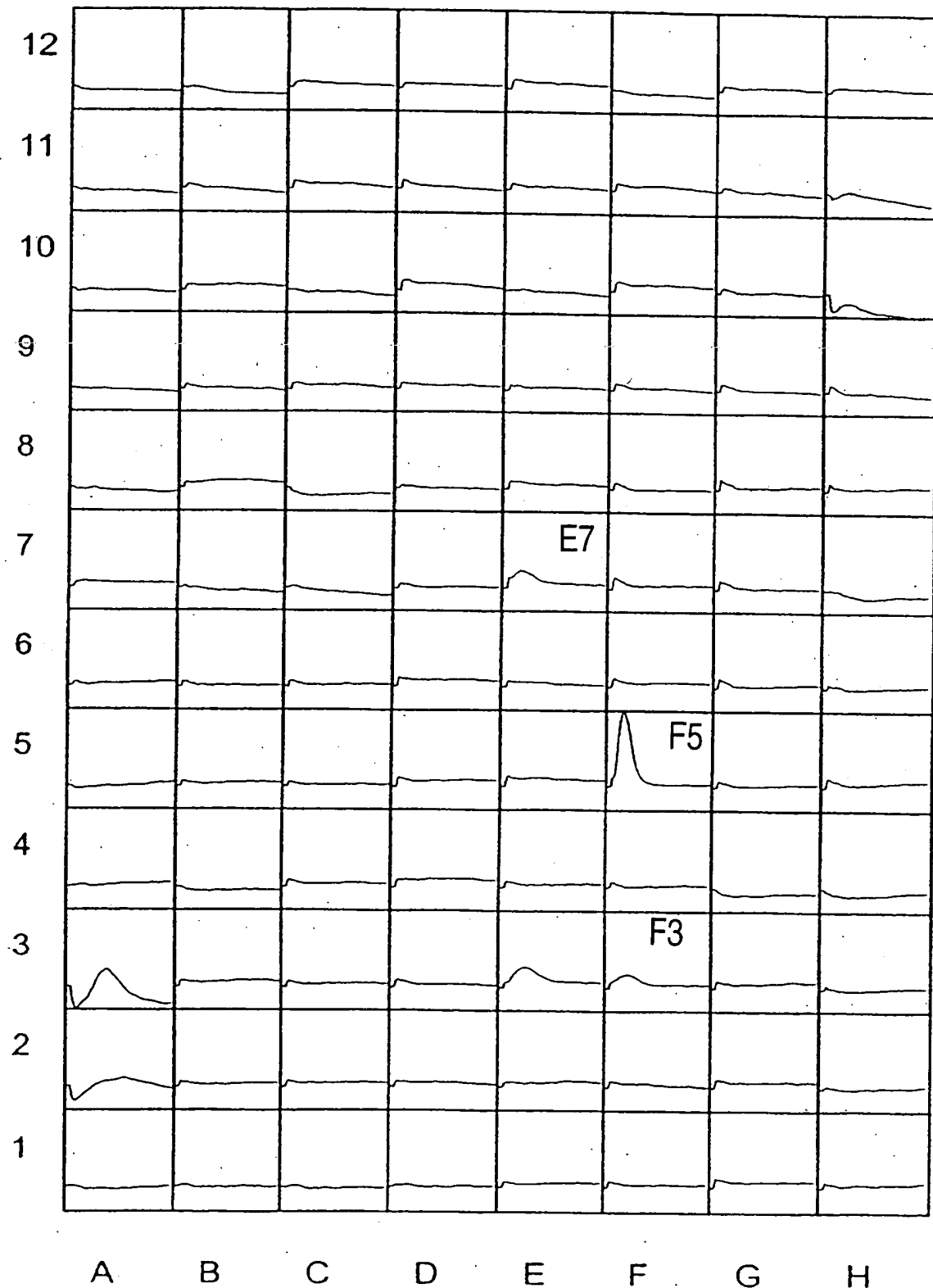
FIG. 5B





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FIG. 6A
qi5 background





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FIG. 6B
rEDG8

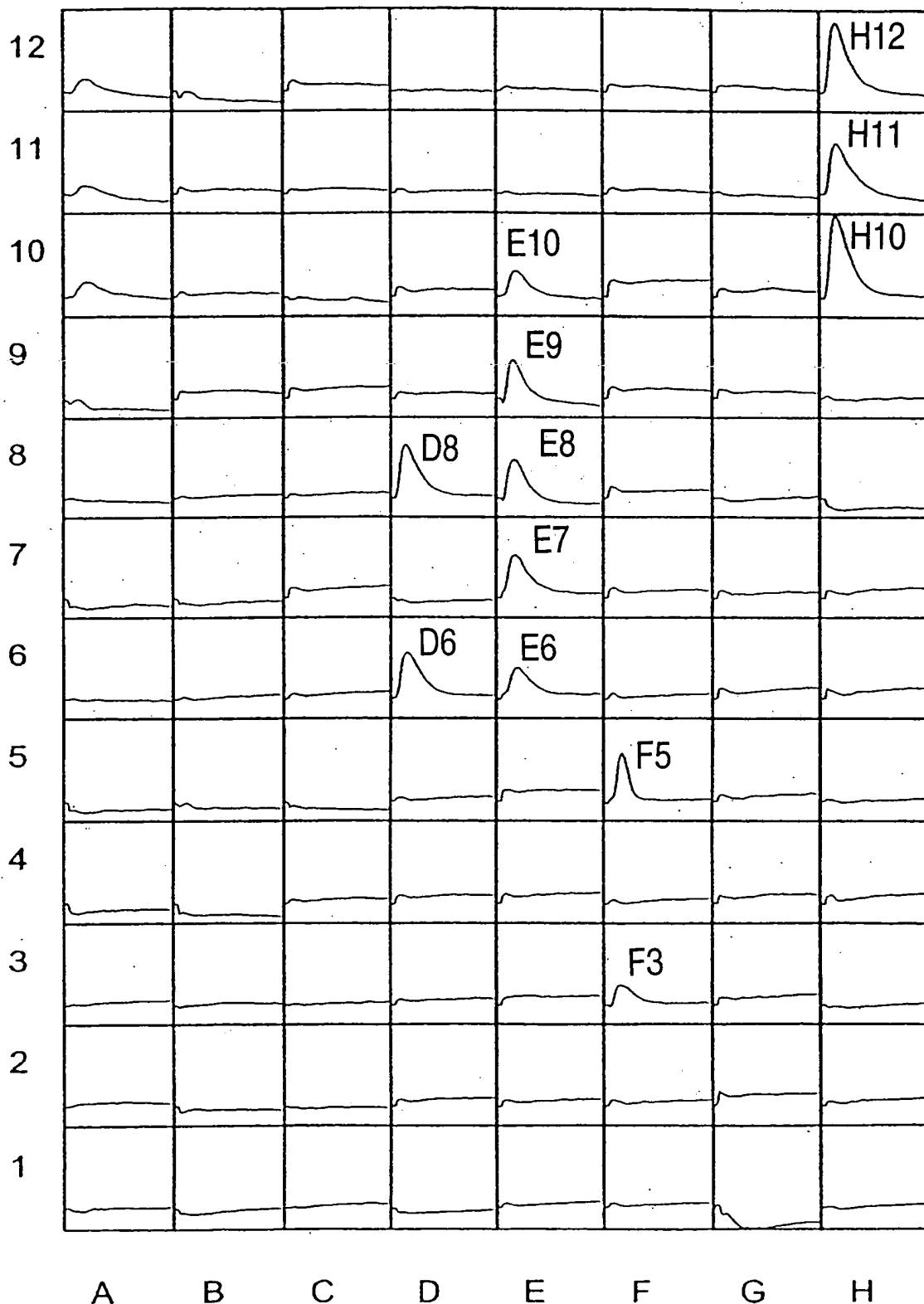


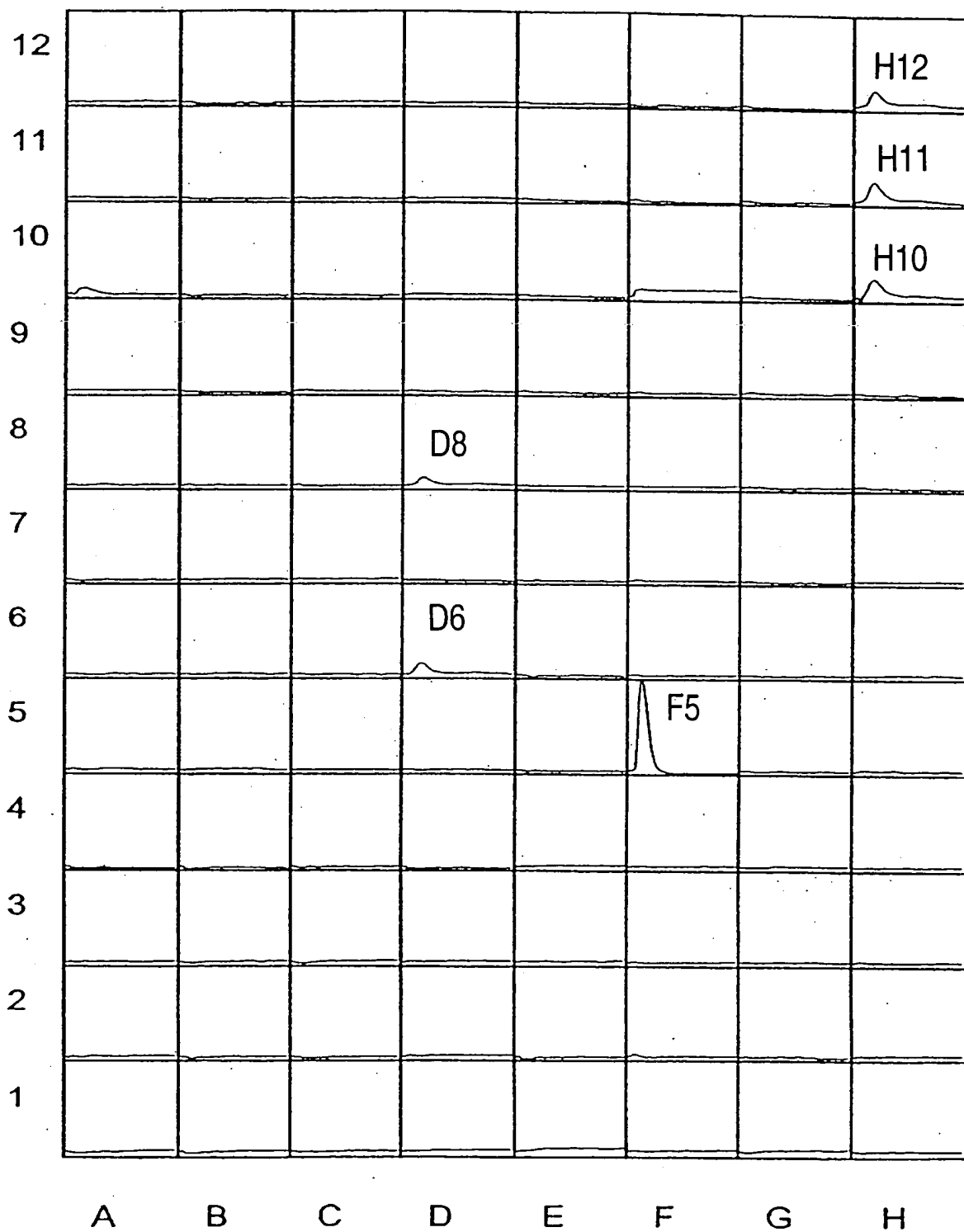


FIG. 6C
Fluorescence Change counts

Wells	Lipid	background	rEDG8	stand. response
H10-H12	1 μ M S1P	0	5196	5196
F5	1 μ M LPA	5893	4327	-1566
F3	1 μ M cPAF	1017	1570	553
E10	1 μ M EPA PAF	0	1354	1354
E9	1 μ M AA PAF	0	3121	3121
E8	1 μ M Enantio PAF	0	3883	3883
E7	1 μ M paf C18:1	1256	3765	2509
E6	1 μ M Lyso PAF	0	2421	2421
D8	1 μ M dhS1P	0	5144	5144
D6	1 μ M S1P	0	3672	3672



FIG. 7A
qi5 background in HEK





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FIG. 7B
hEDG8

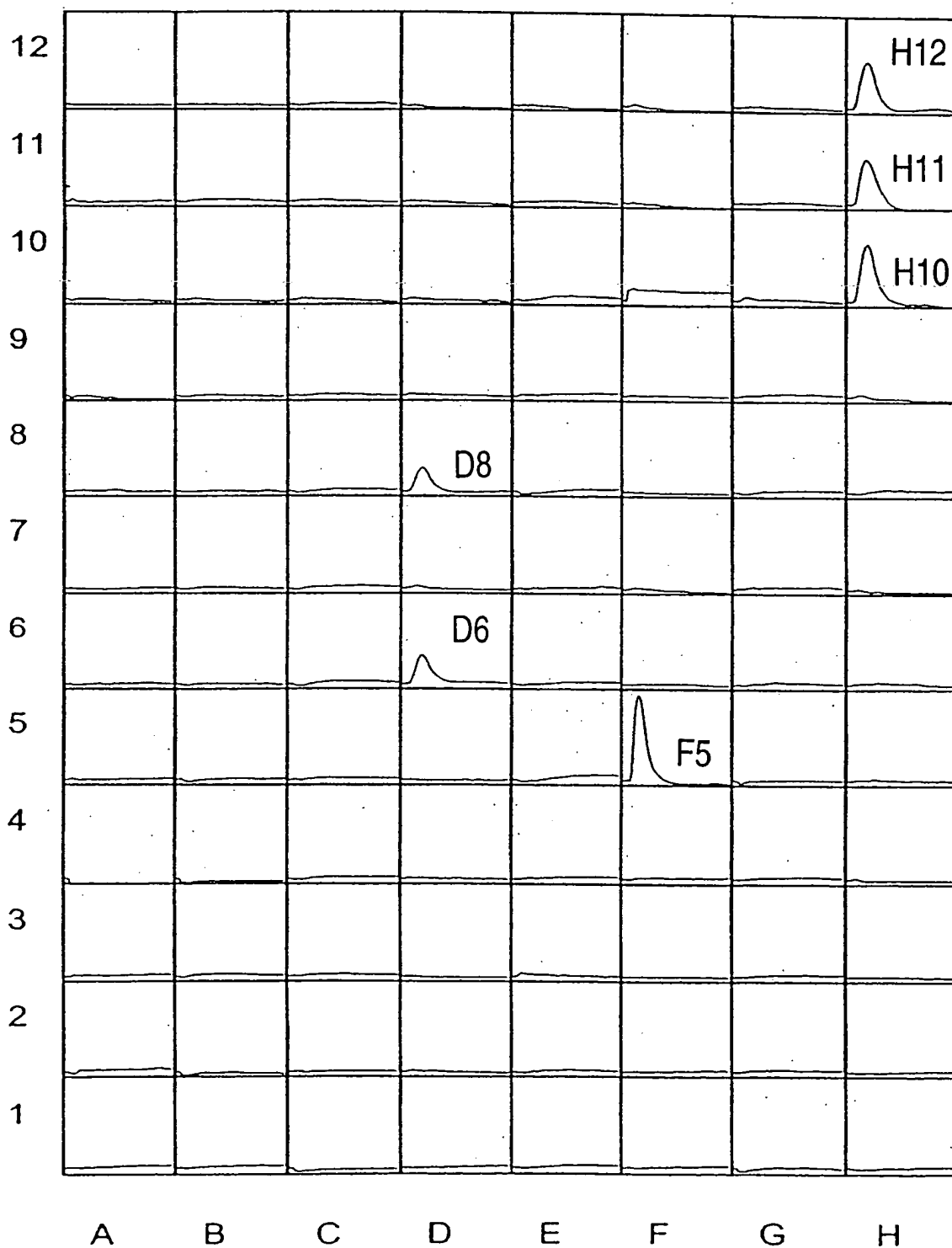




FIG. 7C
Fluorescence change counts

Wells	Lipid	background	hEDG8	stand. response
H10-H12	1 μ M S1P	3696	9493	5797
F5	1 μ M LPA	18004	16333	-1671
D8	1 μ M dhS1P	1683	4522	2839
D6	1 μ M S1P	2273	5605	3332



FIG. 8A

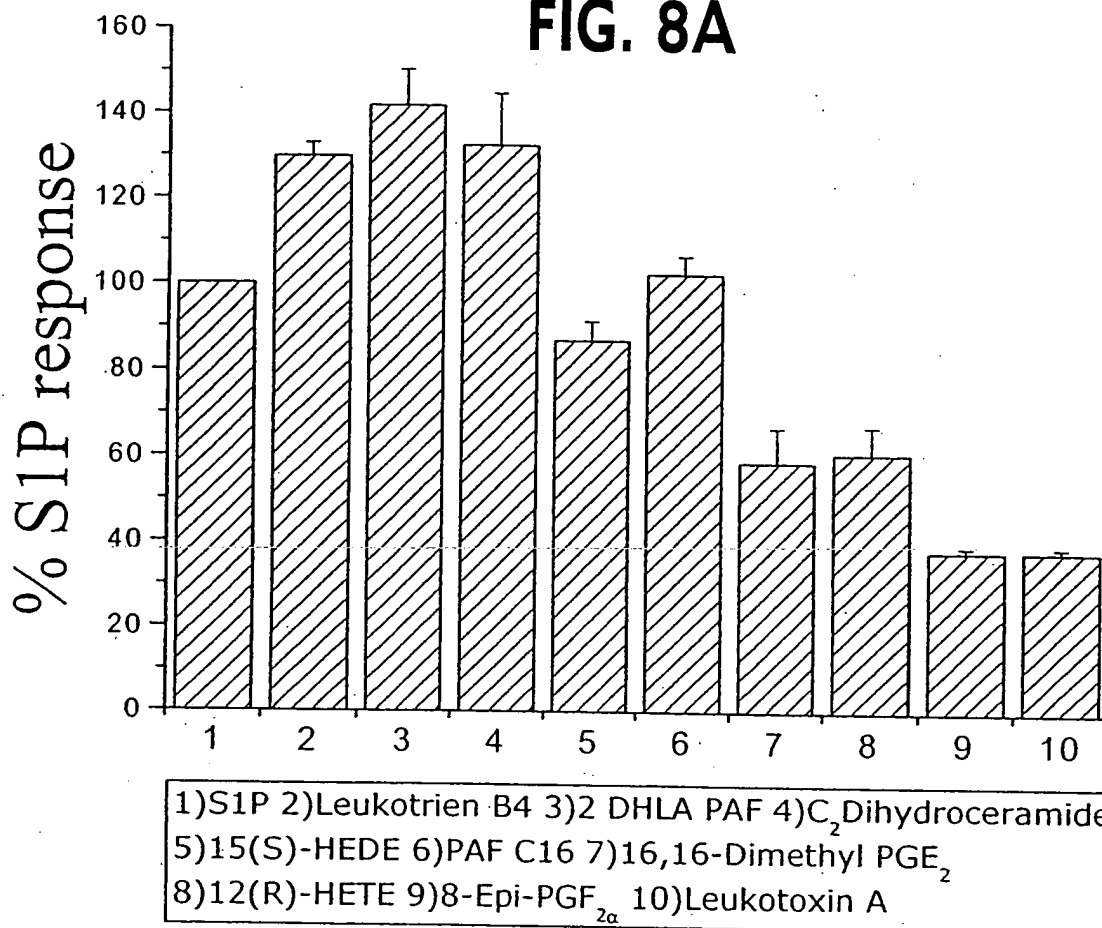
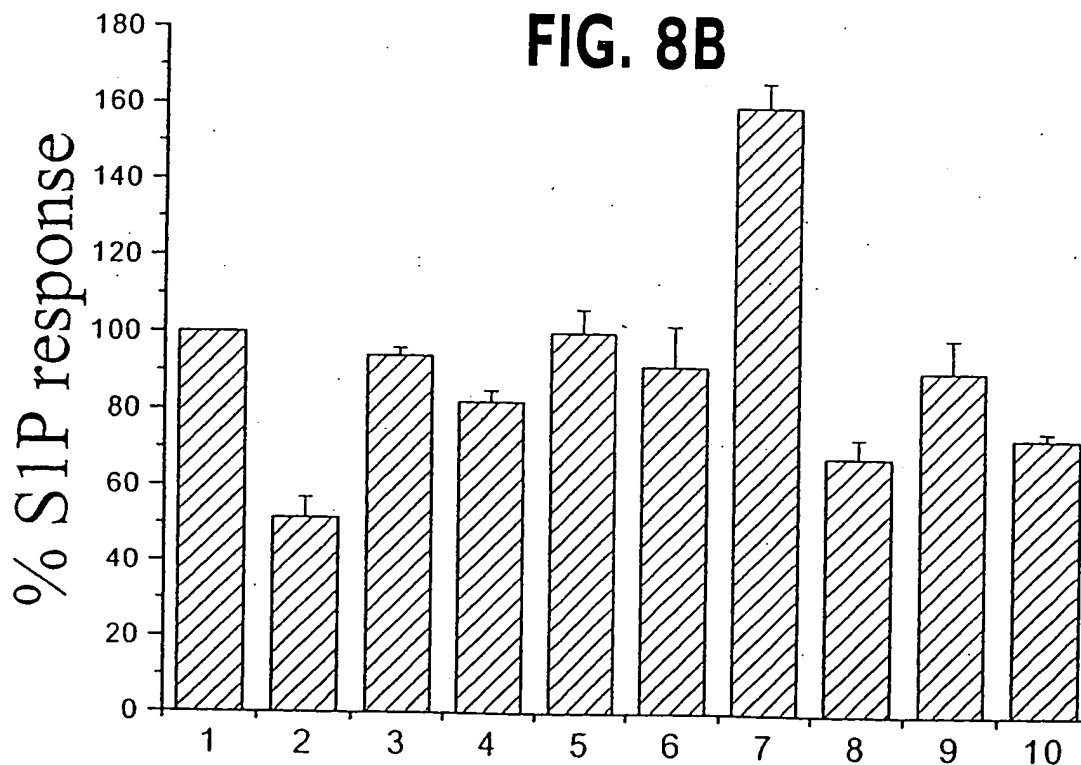


FIG. 8B





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FIG. 9A-1

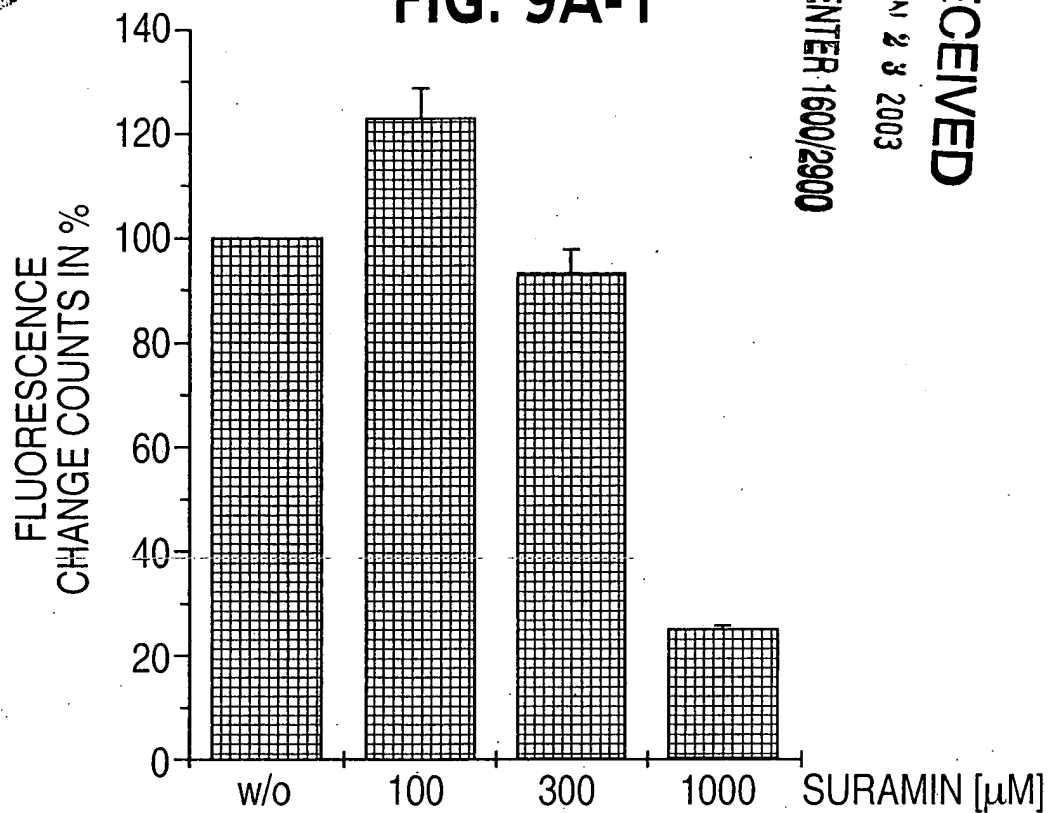
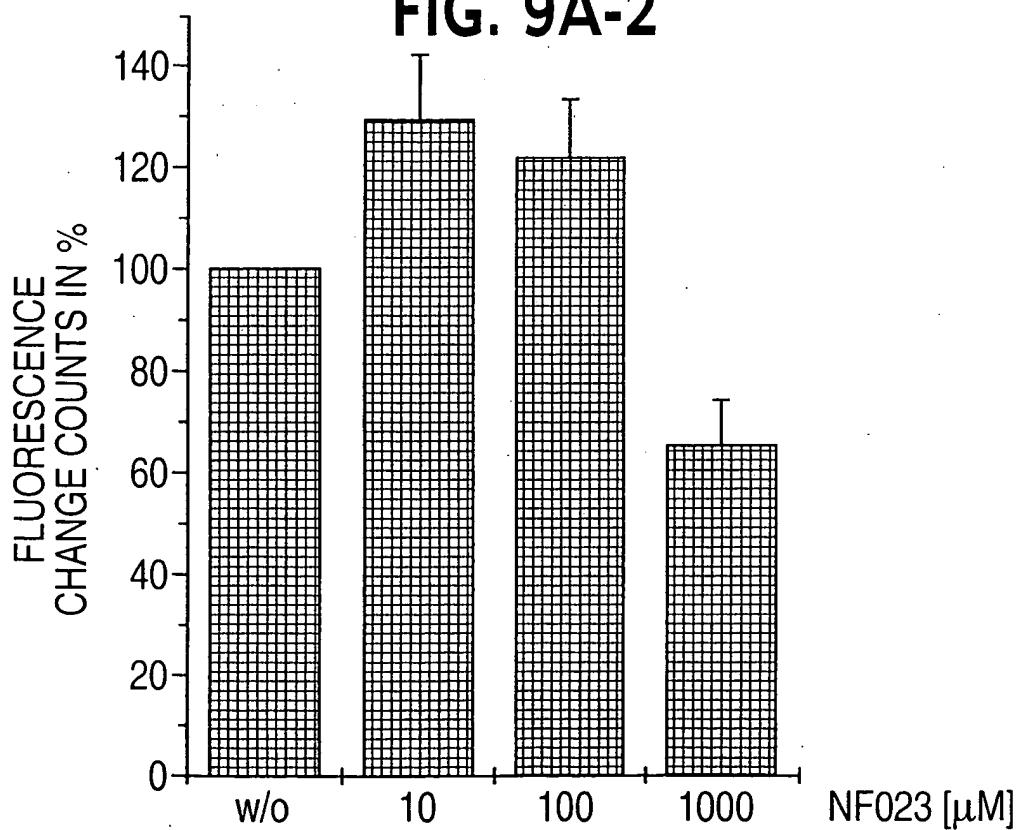


FIG. 9A-2





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FIG. 9B-1

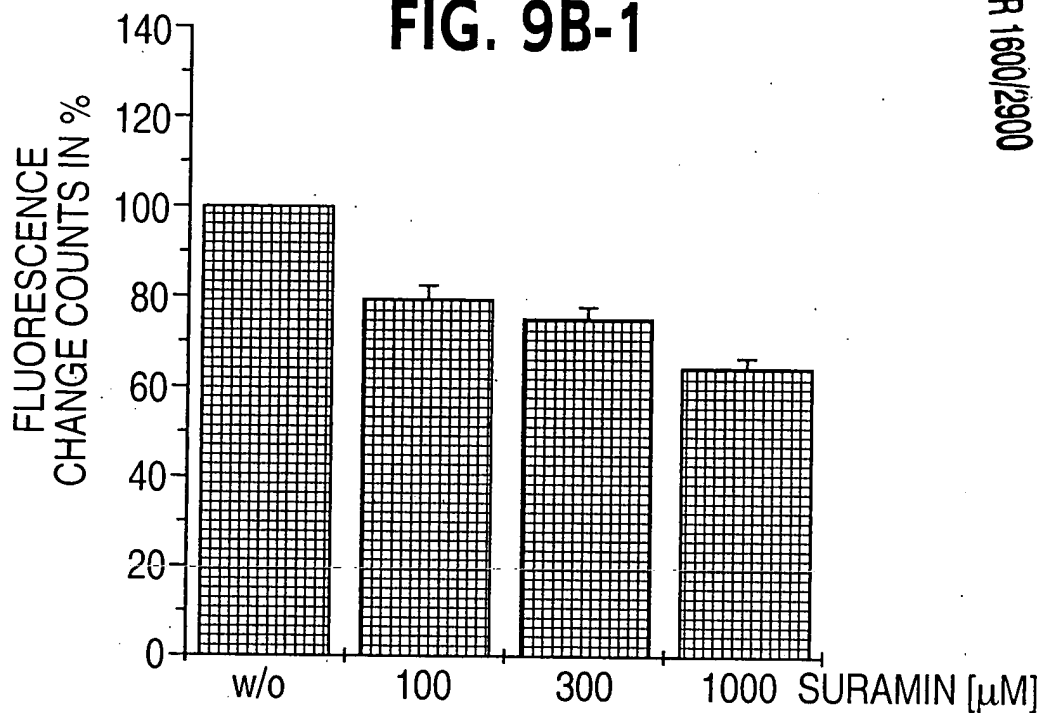


FIG. 9B-2

